

Missouri Assessment Program
Spring 2005

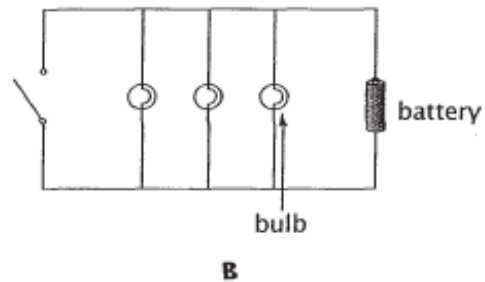
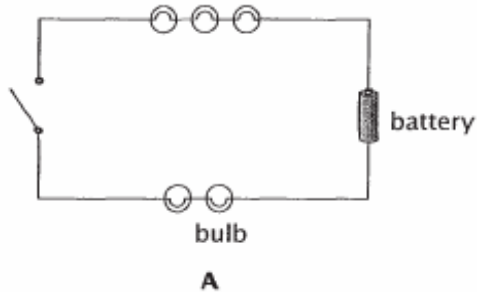
Science

Anchor Pages for Released Items

Grade 7

2 Points

1-7 Which drawing below shows light bulbs connected in a parallel circuit? B



What is an advantage of using a parallel circuit to make a string of decorative (party) lights?

If one goes out the rest of the lights will stay lit.

Score Point 2

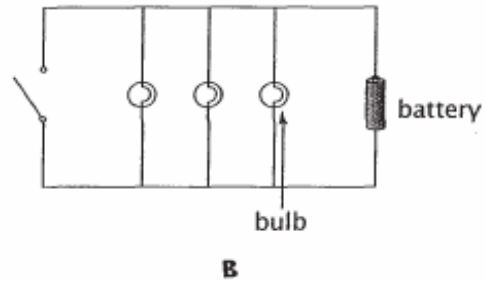
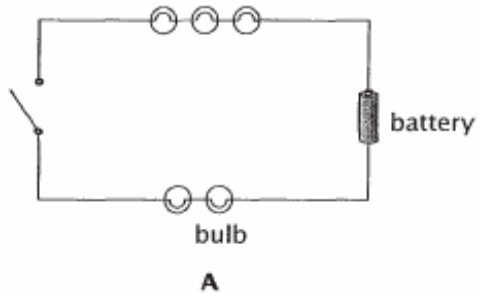
2 Key Elements

>B

>If one bulb goes out, the others will still work.

1 Point

1-7 Which drawing below shows light bulbs connected in a parallel circuit? B



What is an advantage of using a parallel circuit to make a string of decorative (party) lights?

Because they are in line and are easy to power.

Score Point 1

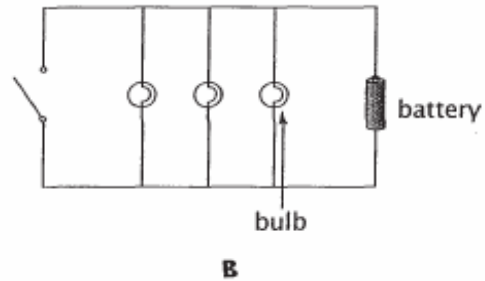
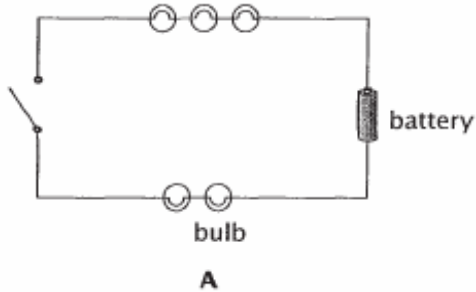
1 Key Element

>B

>[incorrect response]

0 Points

1-7 Which drawing below shows light bulbs connected in a parallel circuit? A



What is an advantage of using a parallel circuit to make a string of decorative (party) lights?

You can have all the lights on or have them flashing.

Score Point 0

No Key Elements

>[incorrect response]

>[incorrect response]

1 Point

1-7 A seventh-grade science team was impressed with a magazine article on body language. The team had access to a video camera. Without telling their classmates, they videotaped their classmates at lunch through a one-way mirror.

(a) May they use and publish the information in this video as part of a report? Explain your answer.

No. You have to ask the people you wanna record.

(b) How can this team obtain and use videotapes of individuals behaving spontaneously at unguarded moments?

every once in a while record them when they arent paying attention.

Score Point 2

2 Key Elements (both in Part A)

Part (a):

>No AND indicates lack of consent as well as the correct solution of obtaining consent

Part (b):

>[extraneous]

1 Point

1-7 A seventh-grade science team was impressed with a magazine article on body language. The team had access to a video camera. Without telling their classmates, they videotaped their classmates at lunch through a one-way mirror.

- (a) May they use and publish the information in this video as part of a report? Explain your answer.

Yes because it involves useful information.

- (b) How can this team obtain and use videotapes of individuals behaving spontaneously at unguarded moments?

Ask them if they can be filmed.

Score Point 1

1 Key Element

Part (a):

>[incorrect response]

Part (b):

>Correct solution of obtaining consent

0 Points

1-7 A seventh-grade science team was impressed with a magazine article on body language. The team had access to a video camera. Without telling their classmates, they videotaped their classmates at lunch through a one-way mirror.

(a) May they use and publish the information in this video as part of a report? Explain your answer.

Yes, because they can watch the video and explain their body movements.

(b) How can this team obtain and use videotapes of individuals behaving spontaneously at unguarded moments?

They can talk about their movements.

Score Point 0

No Key Elements

Part (a):

>[incorrect response]

Part (b):

>[incorrect response]

2 Points

1-8 Some cells have structures called chloroplasts, which contain the green pigment chlorophyll.

(a) Explain the role of chloroplasts in these cells.

To absorb sunlight and give leaves their color. They also help with photosynthesis.

(b) Name two things from the environment that chloroplasts must have to perform this role.

1. sunlight

2. water

Score Point 2

1 Key Element from (a) and 2 Key Elements from (b)

Part (a):

>Chloroplasts perform photosynthesis

Part (b):

>Sunlight

>Water

1 Point

1-8 Some cells have structures called chloroplasts, which contain the green pigment chlorophyll.

(b) Explain the role of chloroplasts in these cells.

it takes the food to another part of the plant

(b) Name two things from the environment that chloroplasts must have to perform this role.

1. sunlight

2. water

Score Point 1

2 Key Elements from (b)

Part (a):

>[incorrect response]

Part (b):

>Sunlight

>Water

1 Point

1-8 Some cells have structures called chloroplasts, which contain the green pigment chlorophyll.

(a) Explain the role of chloroplasts in these cells.

Chloroplasts help complete photosynthesis.

(b) Name two things from the environment that chloroplasts must have to perform this role.

1. water

2. oxygen

Score Point 1

1 Key Element from (a) and 1 Key Element from (b)

Part (a):

>Chloroplasts perform photosynthesis

Part (b):

>Water

>[incorrect response]

0 Points

1-8 Some cells have structures called chloroplasts, which contain the green pigment chlorophyll.

(a) Explain the role of chloroplasts in these cells.

It make the cells green.

(b) Name two things from the environment that chloroplasts must have to perform this role.

1. Plants have chloroplast

2. Leaves have chloroplast

Score Point 0

No Key Elements

Part (a):

>[insufficient explanation

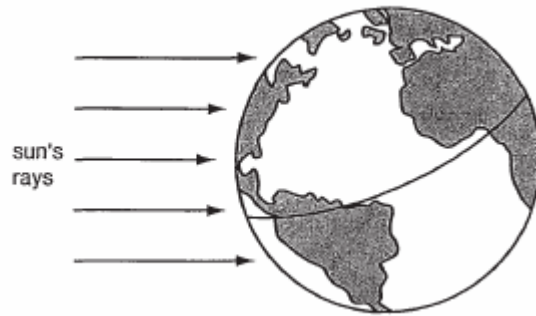
Part (b):

>[incorrect response]

>[incorrect response]

1 Point

1-13



Explain why sunlight creates a pattern of decreasing temperature as someone moves from the equator toward areas at higher latitudes.